

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-12 (canceled)

13. (Currently Amended) A cooking, roasting, baking or grilling device ~~including~~wherein a part or portion thereof ~~having~~has a substrate with a self-cleaning coating thereon which enables remnants of foodstuffs to be removed without mechanical action, comprising:

the coating having a structure formed from a plurality of porous particles having pores therein and a binder; and

said pores in said porous particles in said structure not having a solid or liquid secondary phase therein.

14. (Currently Amended) The device according to claim 13, ~~including~~wherein said porous particles are thermally and chemically stable porous metal oxides, carbides or nitrides.

15. (Currently Amended) The device according to claim 13, ~~including~~wherein said porous particles are at least one of SiO₂, TiO₂, Al₂O₃, ZrO₂, SiC, Si₃N₄, C and B₂O₃, ~~preferably gamma-Al₂O₃ and SiO₂.~~

16. (Currently Amended) The device according to claim 13, ~~including~~wherein said porous particles ~~having~~have a diameter substantially in the range of ~~five (5)~~5 to ~~one hundred (100)~~100 microns, ~~in particular one of ten (10) to eighty (80) microns, twenty (20) to sixty (60) microns or thirty (30) to fifty (50) microns.~~

17. (Currently Amended) The device according to claim 13, includingwherein said porous particles ~~having~~have open-cell pores.

18. (Currently Amended) The device according to claim ~~13~~, includingwherein said binder is an inorganic binder and is substantially permanently temperature resistant up to substantially ~~five hundred (500)~~500 degrees C, ~~in particular said inorganic binder is an inorganic polymer, such as silicone resin or an inorganic sol, both formed on the basis of SiO₂, TiO₂, Al₂O₃, ZrO₂, SiC, Si₃N₄, or B₂O₃ or mixtures of at least two of the following, an open-cell or dense glass, a polymeric phosphate, a silicate, a clay or water glass.~~

19. (Currently Amended) The device according to claim 18, includingwherein said binder ~~are~~comprises particles having a diameter substantially in the range of ~~five tenths (0.5)~~0.5 to ~~ten (10)~~10 microns, ~~in particular one of one (1) to five (5) microns.~~

20. (Currently Amended) The device according to claim 13, includingwherein said coating includingincludes addition particles, ~~in particular particles that function to at least one of, reduction of~~reduce the roughness of the coating, ~~improvement of~~improve the binding between said porous particles, ~~improvement of~~improve the binding between said coating and the substrate, ~~adjustment of~~adjust the color of said coating, or ~~improvement of~~improve the thermal decomposition, the haptics or the spreading ability of said coating.

21. (Currently Amended) The device according to claim 20, ~~including~~wherein said addition particles are at least one of nanoscale particles, particles in the micrometer range, pigment particles, metals, ~~in particular~~including at least one of transition metals ~~or~~and metal oxides, ~~in particular~~transition metals.

22. (Currently Amended) The device according to claim 21, ~~including~~wherein said addition particles are thermally and chemically stable, ~~in particular~~and comprise at least one of metal oxides, carbides and nitrides, such asincluding at least SiO₂, TiO₂, Al₂O₃, ZrO₂, SiC, Si₃N₄, or B₂O₃.

23. (Currently Amended) The device according to claim 13, ~~including~~wherein the part or portion is a part or portion of a baking oven muffle.

24. (Currently Amended) The device according to claim 13, ~~including~~wherein the part or portion is a part or portion of an oven or a stove.

25. (New) The device according to claim 15, wherein said porous particles are at least one of Al₂O₃ and SiO₂.

26. (New) The device according to claim 18, wherein said inorganic builder is an inorganic polymer comprised of at least one of silicone resin and an inorganic soil, each formed of at least one of SiO₂, TiO₂, Al₂O₃, ZrO₂, SiC, Si₃N₄, B₂O₃, and mixtures of at least two of an open cell or dense glass, a polymeric phosphate, a silicate, and a clay or water glass.

27. (New) The device according to claim 19, wherein said particles have a diameter substantially of about 1 to 5 microns.

28. (New) The device according to claim 16, wherein said diameter is substantially about 10 to 80 microns.

29. (New) The device according to claim 16, wherein said diameter is substantially about 20 to 60 microns.

30. (New) The device according to claim 16, wherein said diameter is substantially about 30 to 50 microns.

31. (New) A cooling, roasting, baking or grilling device wherein a part or portion thereof has a substrate with a self-cleaning coating thereon which enables remnants of foodstuffs to be removed without mechanical action, said coating comprising:

a structure formed from a plurality of porous particles each having pores on the surface thereof, and said porous particles arranged to have pores formed between the particles, with the particles held together by a binder;

said pores between the particles being of a size sufficient to spread and absorb on the surfaces of the particles defining the pores between the particles the mobile remnants of foodstuffs, and said pores on the particles being of sufficient size to function as an oxygen reservoir for maximizing decomposition whereby decomposition does not exclusively depend on oxygen supply from the surface and sides of the structure and wherein a sealing of the surface of the coating by large amounts of foodstuffs does not lead to a blocking of decomposition within the entire layer.